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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,543	03/29/2004	Erning Xia	P03459	3425
23702 7550 66652908 Bausch & Lomb Incorporated One Bausch & Lomb Place Rochester, NY 14604-2701			EXAMINER	
			PACKARD, BENJAMIN J	
			ART UNIT	PAPER NUMBER
			1612	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/812 543 XIA ET AL. Office Action Summary Examiner Art Unit Benjamin Packard 1612 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 28 March 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.6-8.13.25-27.29.35-37 and 40-44 is/are pending in the application. 4a) Of the above claim(s) 1.6-8.13 and 25-27 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 29, 35-37, and 40-44 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date 1pg (7/2/04).

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group II, claims 29, 35-37, and 40-44 in the reply filed on 3/28/2008 is acknowledged.

Claims 1, 6-8, 13, and 25-27 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Claim Rejections - 35 USC § 112

LACK OF WRITTEN DESCRIPTION UNDER 35 U.S.C. § 112, FIRST PARAGRAPH:

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 29, 35-37, and 40-44 are rejected under 35 U.S.C. § 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The description requirement of the patent statute requires a description of an invention, not an indication of a result that one might achieve if one made that invention.

See, e.g. In re Wilder, 22 USPQ 369, 372-3 (Fed. Cir. 1984), (Holding that a claim was

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not adequately described because the specification did "little more than outline goals appellants hope the claimed invention achieve and the problems the invention will hopefully ameliorate.').

Mere indistinct terms (such as "organic, nitrogen-containing preservative agent" used herein), however may not suffice to meet the written description requirement. This is particularly true when a compound is claimed in purely functional terms. See <u>Univ. of Rochester v. G.D. Searle</u>, 69 USPQ2d 1886, 1892 (CAFC 2004), stating:

The appearance of mere indistinct words in a specification or a claim, even an original claim, does not necessarily satisfy that requirement. A description of an anti-inflammatory steroid, i.e., a steroid (a generic structural term) described even in terms of its functioning of lessening inflammation of lissues fails to distinguish any steroid from others having the same activity or function. A description of what a material does, rather than of what it is, usually does not suffice.... The disclosure must allow one skilled in the art to <u>visualize or recognize</u> the identity of the subject matter purportedly described. (Emphasis added).

A description of a chemical genus will usually comprise a recitation of structural features common to the members of the genus, which features constitute a substantial portion of the genus. See <u>University of California v. Eli Lilly and Co.</u>, 43 USPQ2d 1398, 1406 (Fed. Cir. 1997). This is analogous to enablement of a genus under section 112, P 1, by showing the enablement of a representative number of species within the genus.

A chemical genus can be adequately described if the disclosure presents a sufficient number of representative species that encompass the genus. If the genus has substantial variance, the disclosure must describe a sufficient number of species to reflect the variation within that genus. See MPEP 2163. Although the MPEP does not specifically define what constitutes a representative number of species, the courts have indicated what does not constitute the same. See, e.g., In re Gostelli, 10 USPQ2d

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1614, 1618 (Fed. Cir. 1989), holding that the disclosure of two chemical compounds within a subgenus did not adequately describe such subgenus.

The MPEP lists factors that can be used to determine if sufficient evidence of possession has been furnished in the disclosure of the Application. These include the level of skill and knowledge in the art, partial structure, physical and/or chemical properties, functional characteristics alone or coupled with a known or disclosed correlation between structure and function, and the method of making the claimed invention. Disclosure of any combination of such identifying characteristics that distinguish the claimed invention from other materials and would lead one of skill in the art to the conclusion that the applicant was in possession of the claimed species is sufficient. MPEP 2163.

Here, the claims are drawn to an ophthalmic composition, where the term
"organic, nitrogen-containing preservative agent" is used to describe a component of the
composition. Organic, nitrogen-containing preservative agents are disclosed to be
biguanide. There is no correlation between the functional characteristics of the
disclosed compounds and their structure. Where the art is complex and unpredictable,
one of ordinary skill in the art would not know what compounds beyond the disclosed
would be appropriate.

Claim Rejections - 35 USC § 112 - Indefiniteness

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claim 37 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claim is directed to a cationic cellulosic polymer, "Polymer JR." But Polymer JR appears to be the trade name for a range of polymers. Therefore, the use of the term Polymer JR defines the source of the polymer, but does not define the actual polymer. See MPEP 2173.05(u) and Ex parte Simpson, 218 USPQ 1020 (Bd. App. 1982).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 29 and 40-44 are rejected under 35 U.S.C. 102(b) as being anticipated by Cini et al (US 5,130,298).

Cini et al teaches a composition comprising zinc-EGF at 5mM-20mM/mL, where the amount may be adjusted by skilled practitioner depending on the amount of EGF to be stabilized (column 4 lines 35-51) and EGF is also known as urogastron, an growth factor. The compositions are disclosed as useful in eye drop formulations, eye gels or eye creams (column 5, lines 49-51) when buffered with borate buffers (column 5 lines 58-63). Table 3 discloses the addition of EDTA as a chelating agent (column 7 line 5 and column 8 lines 20-25). An osmolality of between 225 to 400 mOsm/kg would have

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been reasonably expected to be inherent, given that the composition comprises the same components and are designed for the same purpose. The use of the composition in treating ophthalmic wounds is also disclosed (column 5 lines 16-25).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

Claim 35-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cini et al (US 5.130,298) in view of Ellis et al (US 5.872,086).

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Cini et al teaches a composition comprising aqueous zinc-EGF at 5mM20mM/mL, where the amount may be adjusted by skilled practitioner depending on the amount of EGF to be stabilized (column 4 lines 35-51) and EGF is also known as urogastron, an growth factor. The compositions are taught as useful in eye drop formulations, eye gels or eye creams (column 5, lines 49-51) when buffered with borate buffers (column 5 lines 58-63). Table 3 teaches the addition of EDTA as a chelating agent (column 7 line 5 and column 8 lines 20-25). The addition of polymers is taught for the adjustment of viscosity or for use as extenders (column 5 lines 54-63).

Cini et al does not teach which polymers to use to adjust the viscosity or use as extenders.

Ellis et al teaches the addition of cationic cellulosic polymers, including Polymer JR-30M in the range of 0.001-10wt% to adjust the osmolality of the composition to be used to treat contact lenses (see working example 7 and tables 8-9, column 10 lines 29-66 and column 4 lines 55-59). Borate (claim 7), biguanide (claim 5), and EDTA (column 5 lines 26-32) may also be part of the composition.

Ellis et al does not teach the addition of zinc.

It would have been obvious to one of ordinary skill in the art when making the composition of Cini et al, to adjust the viscosity using a polymer that has previously been used with similar components as an ophthalmic composition. Looking to Ellis et al, the components are the same, except for the addition of zinc, therefore it would be obvious to use Polymer JR in the range disclosed.

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Conclusion

No claims allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin Packard whose telephone number is 571-270-3440. The examiner can normally be reached on M-F 8-3:45 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frederick Krass can be reached on 571-272-0580. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Benjamin Packard/ Patent Examiner, Art Unit 1612

> /Frederick Krass/ Supervisory Patent Examiner, Art Unit 1612